



2016 P r o t o c o l s

T r a n s f o r m a t i o n

Purpose: To get plasmid DNA into Dh5 α chemically competent *E. coli* cells.

Required Materials:

- Competent cells (Dh5 α , chemically competent)
- Ice
- LB
- 37°C Incubator
- LB antibiotic media
- Plasmid DNA to be transformed

Procedure:

1. Thaw competent cells on ice.
2. Mix 1-3 μ l of DNA with the thawed competent cells into 1.5 ml tube
3. Incubate tube(s) on ice for 30 minutes
4. Heat shock tubes at 42°C for 1 minute
5. Incubate on ice for 5 minutes
6. Pipette 200 μ l SOC media to each tube
7. Incubate at 37°C for 1 hour
8. Pipette each transformation on two petri plates for a 20 μ l and 200 μ l plating
9. Incubate transformation overnight at 37°